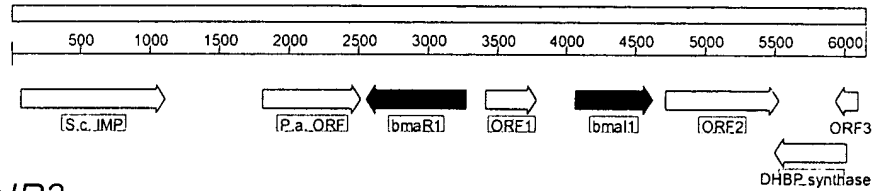
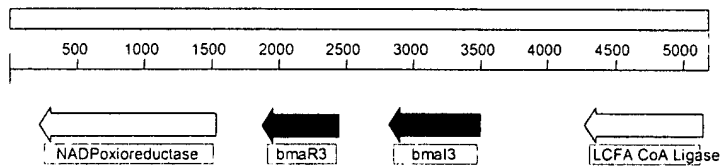


Genetic organization of the *B. mallei* quorum genes

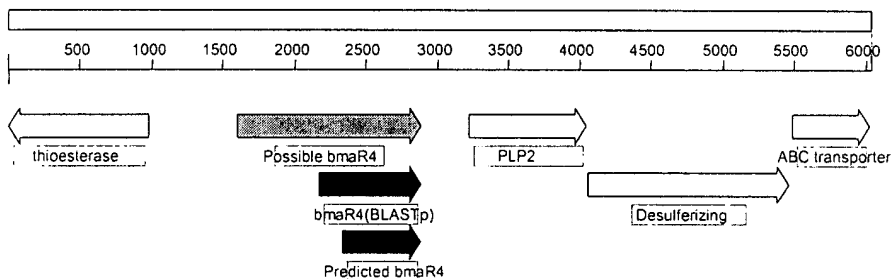
bmaIR1



bmaIR3



bmaR4



bmaR5

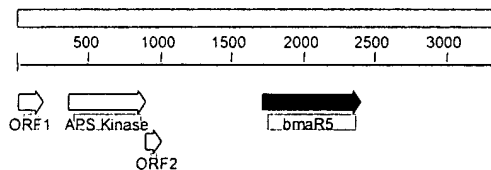


Figure 1. Structural organization of the *B. mallei* ATCC23344 quorum sensing network. The ASH genes are represented as *bmaI1* and *bmaI3* and the luxR homologues are labeled as *bmaR1*, *bmaR3*, *bmaR4*, and *bmaR5*. ORF depicts a potential open reading frame. The surrounding genes are putative orfs identified by performing tblastn searches (<http://www.ncbi.nlm.nih.gov/BLAST/>).

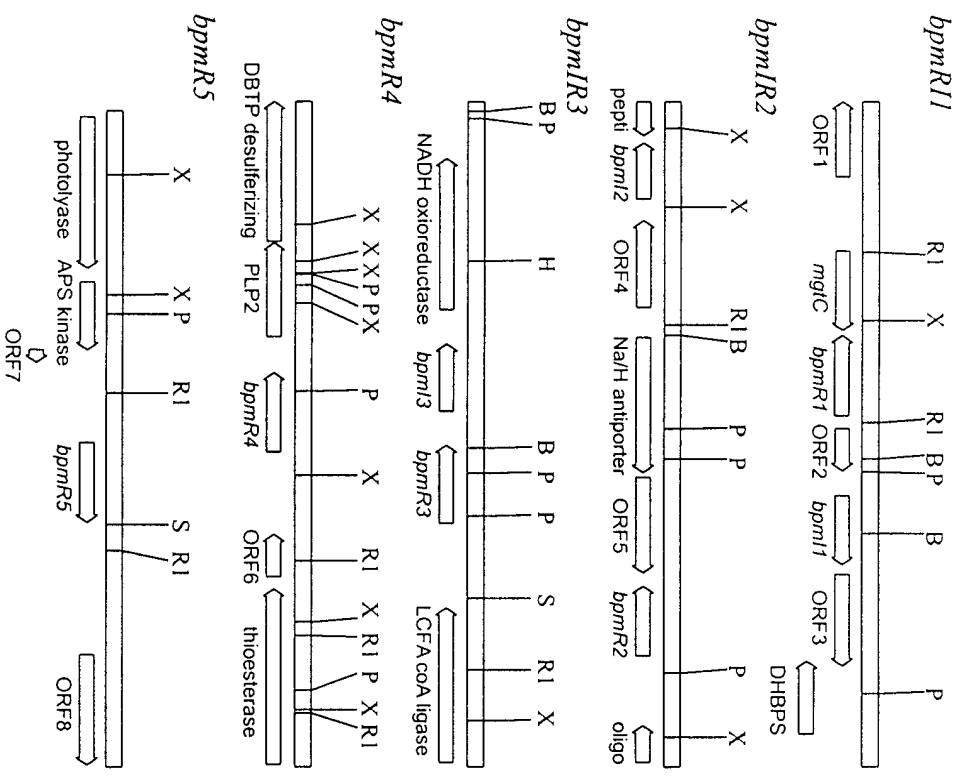
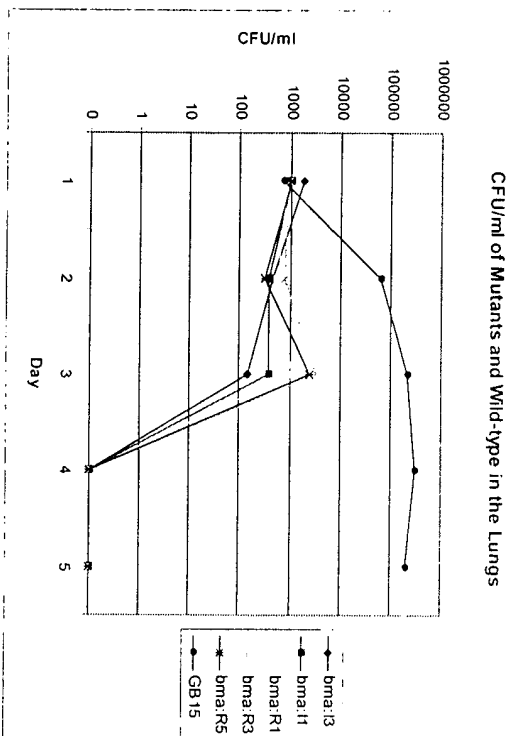
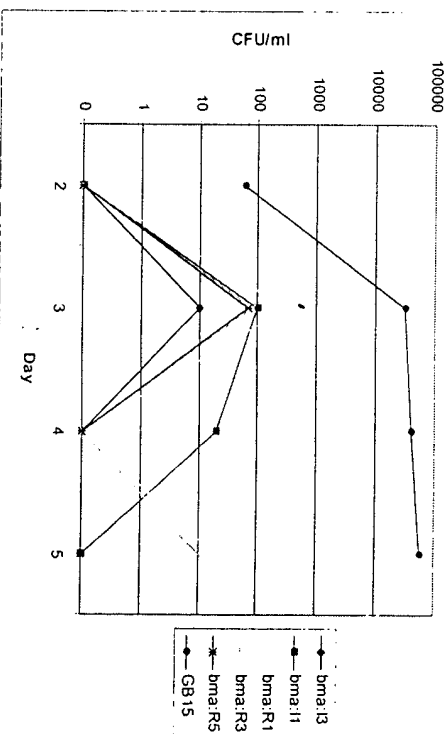


Figure 2. Structural organization of the *B. pseudomallei* K96234 quorum sensing network. The ASH genes are represented as *bpmI1*, *bpmI2* and *bpmI3* and the luxR homologues are labeled as *bmaR1*, *bmaR2*, *bmaR3*, *bmaR4*, and *bmaR5*. ORF depicts a potential open reading frame. The surrounding genes are putative orfs identified by performing tblastn searches (<http://www.ncbi.nlm.nih.gov/BLAST/>).

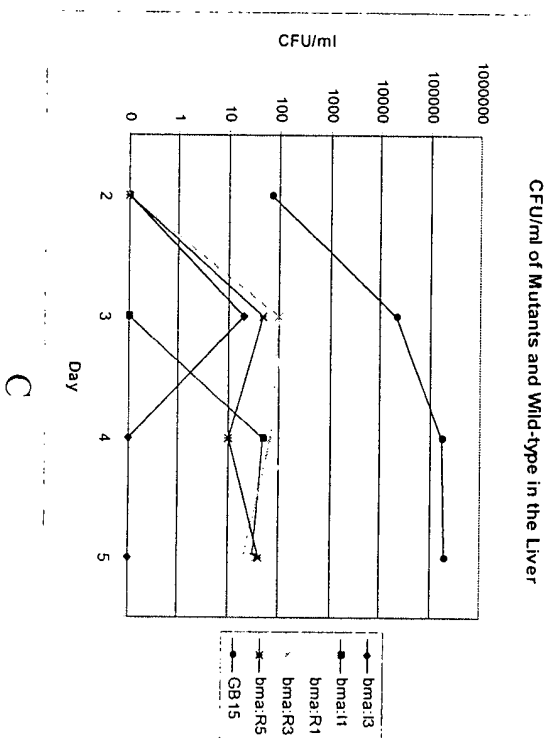
A



CFU/ml of Mutants and Wild-type in the Spleen



B



C

Figure 3. The organ loads of female BALB/c mice aerosolized with *B. mallei* ATCC 23344 quorum sensing mutants. (A) represents the number of viable organisms within the lungs, (B) depicts cfus recovered from the spleen, and (D) demonstrates the organ loads in the liver. Animals were challenged with approximately 10^5 cfus of wild-type *B. mallei* ATCC 23344 and each quorum sensing mutant. Organs were extracted at days 1-5 and at day 30 post challenge. GB15 represents wild-type *B. mallei* ATCC 23344.

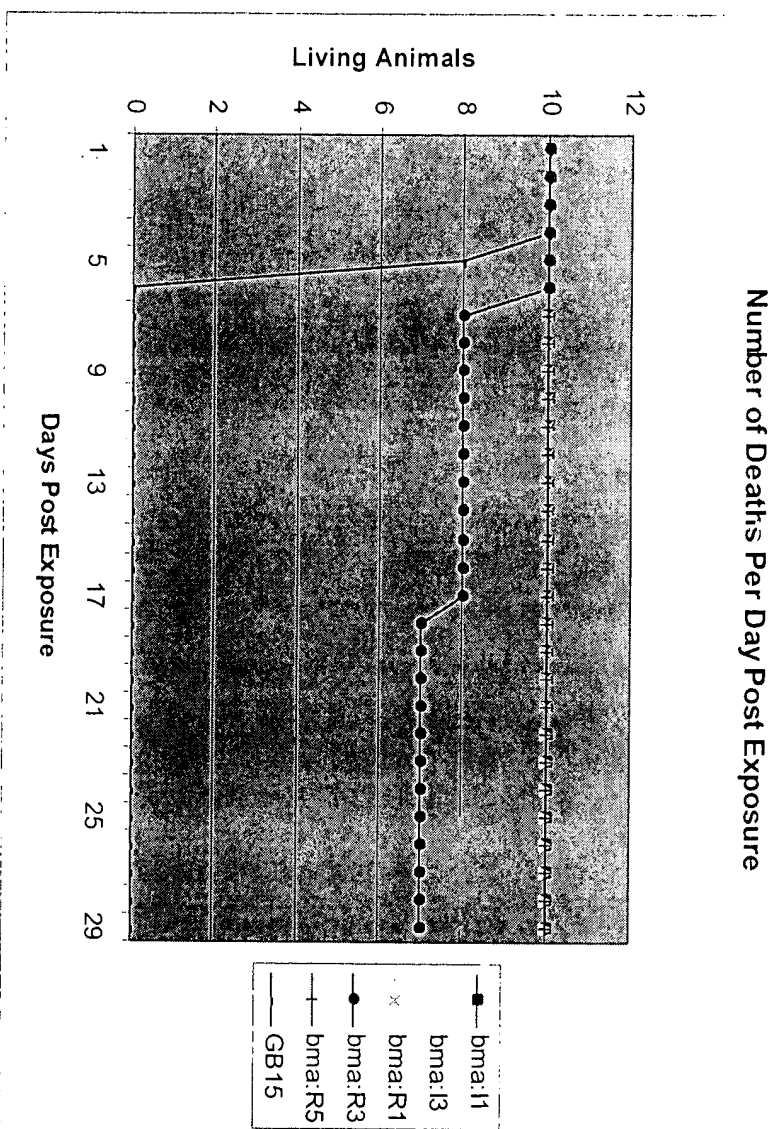


Figure 4. Time to death of BALB/c mice infected with wild type *B. mallei* ATCC 23344 and each quorum sensing mutant. Female BALB/c mice were aerosolized with approximately 10^5 cfus of wild type *B. mallei* ATCC 23344 and each derivative quorum sensing mutant. Animal death was followed over a 29 interval. GB15 represents wild type *B. mallei*.

Number of Deaths Per Day Post Exposure

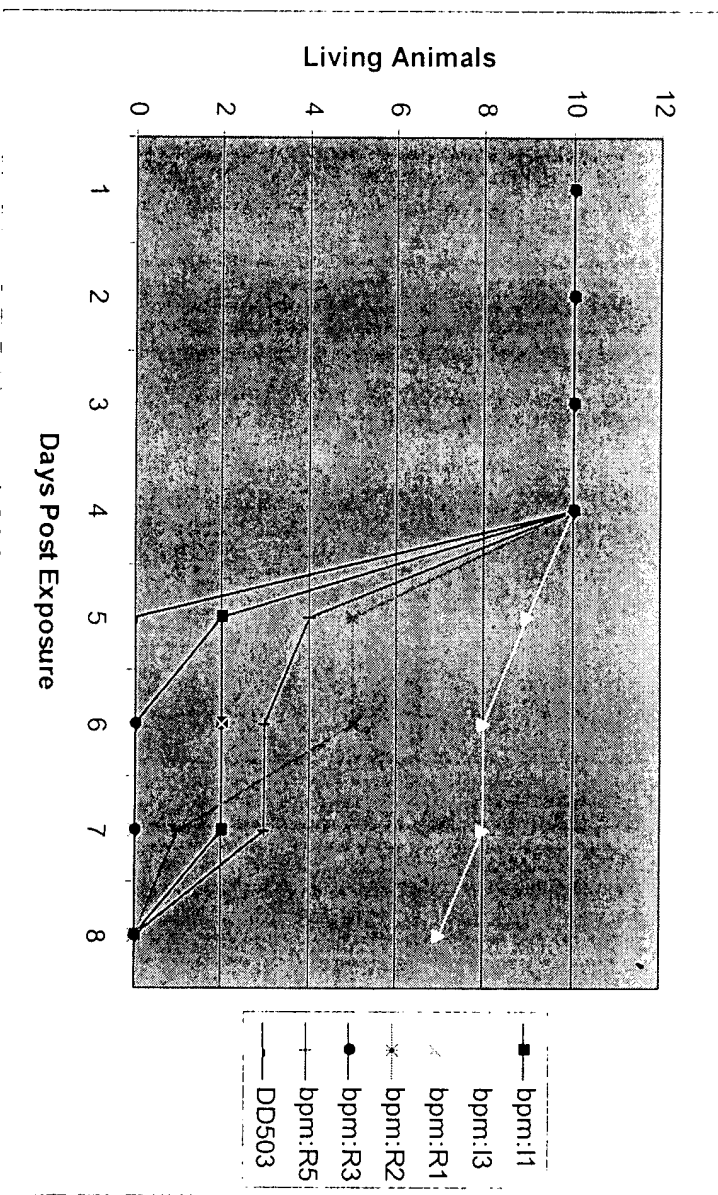


Figure 5. Time to death of BALB/c mice infected with wild type *B. pseudomallei* DD503 and each quorum sensing mutants. Female BALB/c mice were aerosolized with approximately 10^5 cfus of wild type *B. pseudomallei* DD503 and each derivative quorum sensing mutant. Animal death was followed over a 29 interval. DD503 represents wild type *B. pseudomallei*.